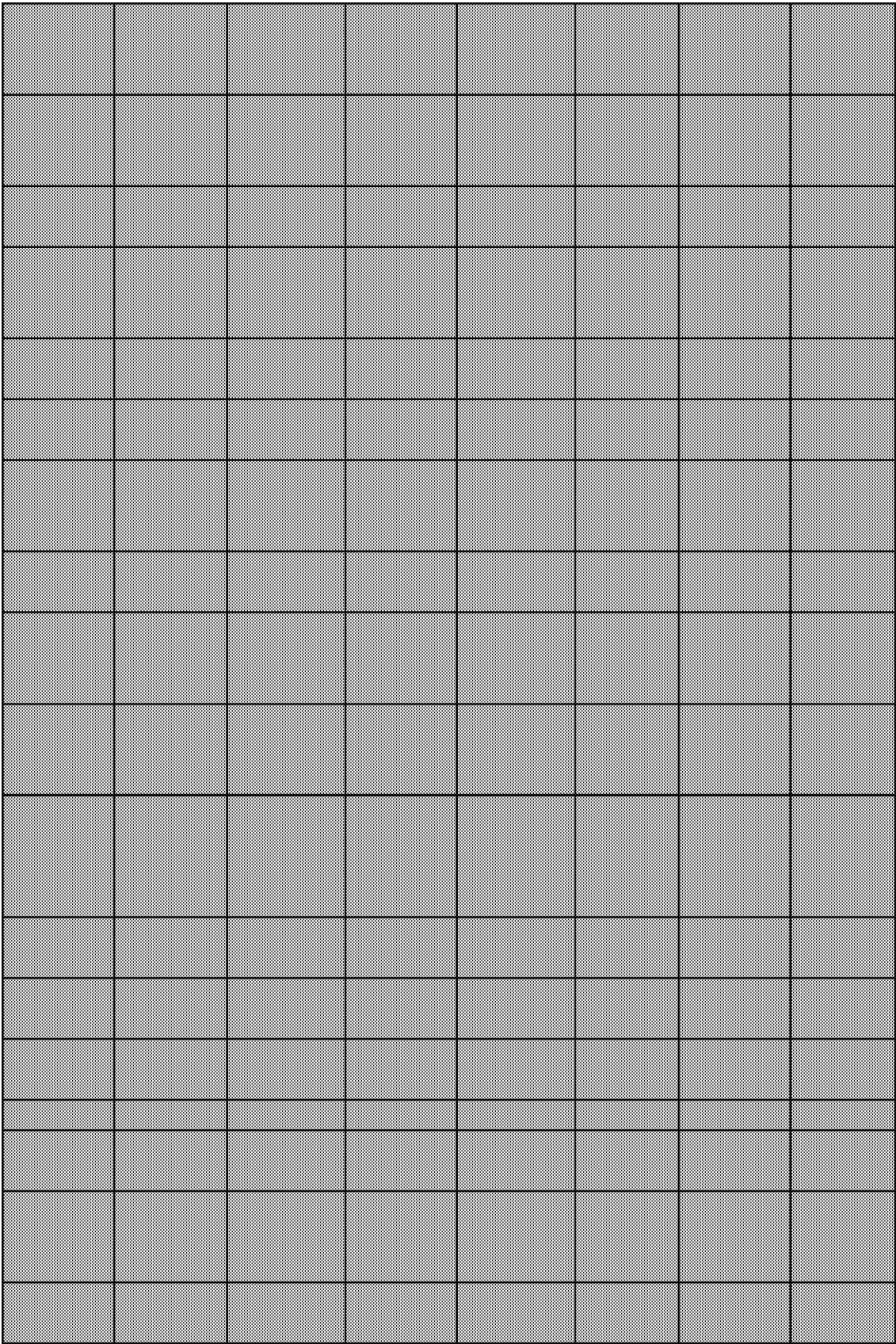


Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1



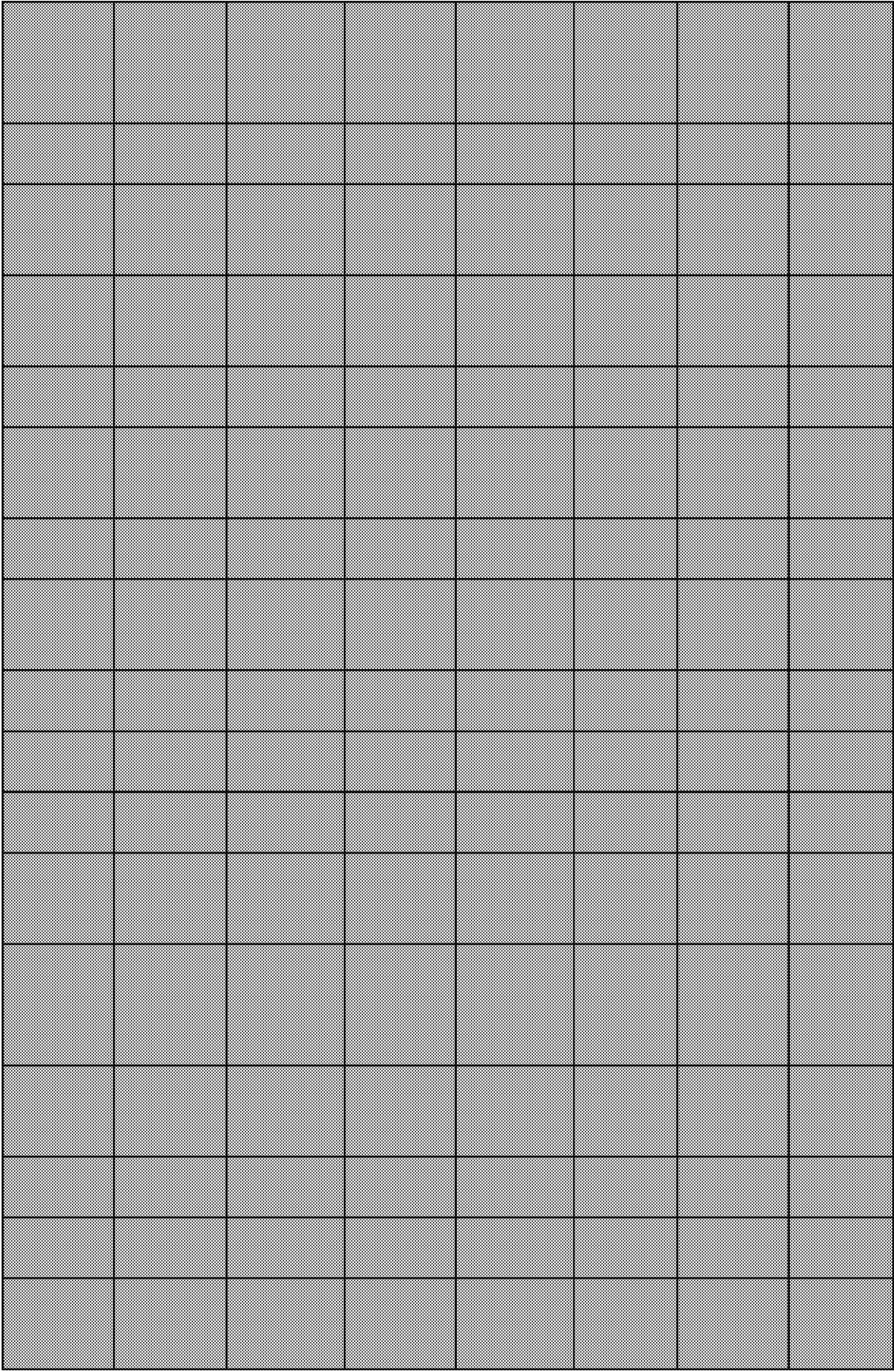
1817
1819
1820
1821
1822
1823
1824
1825
1827
1828
1829
1830
1832
1834
1835
1836
1837

M. M. Page, A. B. Salmon, S. F. Leiser, E. L. Robb, M. F. Brown, R. A. Miller, J. A. Stuart. Mechanisms of stress resistance in Snell dwarf mouse fibroblasts: enhanced antioxidant and DNA base excision repair capacity, but no differences in mitochondrial metabolism. <i>Free Radic Biol Med.</i> 2009. 46:1109-18
C. E. Azpilicueta, M. P. Benavides, M. L. Tomaro, S. M. Gallego. Mechanism of CATA3 induction by cadmium in sunflower leaves. <i>Plant Physiol Biochem.</i> 2007. 45:589-95
A. Kumar, S. Shukla, A. K. Chauhan, D. Singh, H. P. Pandey, C. Singh. The manganese-salen compound EUK-134 and N-acetyl cysteine rescue from zinc- and paraquat-induced toxicity in rat polymorphonuclear leukocytes. <i>Chem Biol Interact.</i> 2015. 231:18-26
C. Bowler, L. Slooten, S. Vandenbranden, R. De Rycke, J. Botterman, C. Sybesma, M. Van Montagu, D. Inze. Manganese superoxide dismutase can reduce cellular damage mediated by oxygen radicals in transgenic plants. <i>Embo j.</i> 1991. 10:1723-32
F. Crecelius, P. Streb, J. Feierabend. Malate metabolism and reactions of oxidoreduction in cold-hardened winter rye (<i>Secale cereale</i> L.) leaves. <i>J Exp Bot.</i> 2003. 54:1075-83
M. E. Tome, J. B. Frye, D. L. Coyle, E. L. Jacobson, B. K. Samulitis, K. Dvorak, R. T. Dorr, M. M. Briehl. Lymphoma cells with increased anti-oxidant defenses acquire chemoresistance. <i>Exp Ther Med.</i> 2012. 3:845-852
S. I. Liochev, I. Fridovich. Lucigenin luminescence as a measure of intracellular superoxide dismutase activity in <i>Escherichia coli</i> . <i>Proc Natl Acad Sci U S A.</i> 1997. 94:2891-6
G. Orendi, P. Zimmermann, C. Baar, U. Zentgraf. Loss of stress-induced expression of catalase3 during leaf senescence in <i>Arabidopsis thaliana</i> is restricted to oxidative stress. <i>Plant Sci.</i> 2001. 161:301-314
C. H. Kuo, K. Maita, S. D. Sleight, J. B. Hook. Lipid peroxidation: a possible mechanism of cephaloridine-induced nephrotoxicity. <i>Toxicol Appl Pharmacol.</i> 1983. 67:78-88
M. B. Bauder, V. P. Palace, P. V. Hodson. Is oxidative stress the mechanism of blue sac disease in retene-exposed trout larvae?. <i>Environ Toxicol Chem.</i> 2005. 24:694-702
J. Klimek. The involvement of superoxide and iron ions in the NADPH-dependent lipid peroxidation in human placental mitochondria. <i>Biochim Biophys Acta.</i> 1988. 958:31-9
D. M. Bustos, C. A. Bustamante, A. A. Iglesias. Involvement of non-phosphorylating glyceraldehyde-3-phosphate dehydrogenase in response to oxidative stress. <i>J Plant Physiol.</i> 2008. 165:456-61
B. A. Bellaire, J. Carmody, J. Braud, D. R. Gossett, S. W. Banks, M. C. Lucas, T. E. Fowler. Involvement of abscisic acid-dependent and -independent pathways in the upregulation of antioxidant enzyme activity during NaCl stress in cotton callus tissue. <i>Free Radic Res.</i> 2000. 33:531-45
F. P. Chang, Y. P. Chen, C. Y. Mou. Intracellular implantation of enzymes in hollow silica nanospheres for protein therapy: cascade system of superoxide dismutase and catalase. <i>Small.</i> 2014. 10:4785-95
H. Qian, W. Chen, L. Sun, Y. Jin, W. Liu, Z. Fu. Inhibitory effects of paraquat on photosynthesis and the response to oxidative stress in <i>Chlorella vulgaris</i> . <i>Ecotoxicology.</i> 2009. 18:537-43
E. D. Kharasch, R. F. Novak. Inhibitory effects of anthracenedione antineoplastic agents on hepatic and cardiac lipid peroxidation. <i>J Pharmacol Exp Ther.</i> 1983. 226:500-6
V. Gallo, E. Schwarzer, S. Rahlfs, R. H. Schirmer, R. van Zwieten, D. Roos, P. Arese, K. Becker. Inherited glutathione reductase deficiency and <i>Plasmodium falciparum</i> malaria--a case study. <i>PLoS One.</i> 2009. 4:e7303

Dermal fibroblasts from long-lived Snell dwarf mice can withstand a variety of oxidative and non-oxidative stressors com
One of the main antioxidant enzymes, catalase (CAT, EC 1.11.1.6), is capable of catalyzing the dismutation of H(2)O(2). Th
Oxidative stress is implicated in toxicant-induced inflammation leading to chronic diseases. Polymorphonuclear leukocyt
In plants, environmental adversity often leads to the formation of highly reactive oxygen radicals. Since resistance to suc
In cold-hardened leaves (CHL) of winter rye (<i>Secale cereale</i> L.) much higher levels of malate were detected by (13)C-NMR
Chronic inflammation increases lymphoma risk. Chronic inflammation exposes cells to increased reactive oxygen species
Lucigenin and paraquat are similar in that each can be taken into <i>Escherichia coli</i> and can then mediate O2.- production b
Different stress conditions can induce changes in the activity of the antioxidant enzymes superoxide dismutase (SOD, EC
Cephaloridine produces renal cortical injury, but the precise mechanism responsible for this nephrotoxicity remains uncl
Retene (7-isopropyl-1-methylphenanthrene) causes blue sac disease (BSD) in early life stages of fish, an effect similar to t
Incubation of human term placental mitochondria with Fe2+ and a NADPH-generating system initiated high levels of lipid
Glyceraldehyde-3-phosphate dehydrogenases catalyze key steps in energy and reducing power partitioning in cells of hig
The role of abscisic acid (ABA) in the signal transduction pathway associated with NaCl-induced up-regulation of antioxid
An approach for enzyme therapeutics is elaborated with cell-implanted nanoreactors that are based on multiple enzyme
This study investigated the effects of paraquat, a widely used herbicide, on the aquatic unicellular alga <i>Chlorella vulgaris</i>
The effects of mitoxantrone, ametantrone and a monohydroxylated anthracenedione on hepatic microsomal, cardiac sar
In <i>Plasmodium falciparum</i> -infected red blood cells (RBCs), the flavoenzyme glutathione reductase (GR) regenerates redu

Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant

Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1
Level 1



1839
1840
1841
1842
1843
1844
1845
1846
1847
1848
1849
1850
1851
1852
1853
1854
1855
1856
1857

A. C. Bainy, M. A. Silva, M. Kogake, L. A. Videla, V. B. Junqueira. Influence of lindane and paraquat on oxidative stress-related parameters of erythrocytes in vitro. <i>Hum Exp Toxicol</i> . 1994. 13:461-5
E. Rohrdanz, B. Obertriffter, S. Ohler, Q. H. Tran-Thi, R. Kahl. Influence of Adriamycin and paraquat on antioxidant enzyme expression in primary rat hepatocytes. <i>Arch Toxicol</i> . 2000. 74:231-7
Y. Niwa, K. Ishimoto, T. Kanoh. Induction of superoxide dismutase in leukocytes by paraquat: correlation with age and possible predictor of longevity. <i>Blood</i> . 1990. 76:835-41
J. S. Kerr, G. A. Boswell, N. R. Ackerman, T. M. Stevens. Induction of superoxide dismutase activity by paraquat or EDU in human gingival fibroblasts. <i>Basic Life Sci</i> . 1988. 49:695-8
H. D. Ding, X. H. Zhang, S. C. Xu, L. L. Sun, M. Y. Jiang, A. Y. Zhang, Y. G. Jin. Induction of protection against paraquat-induced oxidative damage by abscisic acid in maize leaves is mediated through mitogen-activated protein kinase. <i>J Integr Plant Biol</i> . 2009. 51:961-72
M. Sawada, T. Sofuni, M. Ishidate. Induction of chromosomal aberrations in active oxygen-generating systems. II. A study with hydrogen peroxide-resistant cells in culture. <i>Mutat Res</i> . 1988. 197:133-40
T. M. Stevens, G. A. Boswell, R. Adler, N. R. Ackerman, J. S. Kerr. Induction of antioxidant enzyme activities by a phenylurea derivative, EDU. <i>Toxicol Appl Pharmacol</i> . 1988. 96:33-42
K. C. Harris, E. Bielefeld, B. H. Hu, D. Henderson. Increased resistance to free radical damage induced by low-level sound conditioning. <i>Hear Res</i> . 2006. 213:118-29
E. Dicker, A. I. Cederbaum. Increased oxygen radical-dependent inactivation of metabolic enzymes by liver microsomes after chronic ethanol consumption. <i>Faseb j</i> . 1988. 2:2901-6
A. T. Black, J. P. Gray, M. P. Shakarjian, D. L. Laskin, D. E. Heck, J. D. Laskin. Increased oxidative stress and antioxidant expression in mouse keratinocytes following exposure to paraquat. <i>Toxicol Appl Pharmacol</i> . 2008. 231:384-92
J. Xu, J. Yang, X. Duan, Y. Jiang, P. Zhang. Increased expression of native cytosolic Cu/Zn superoxide dismutase and ascorbate peroxidase improves tolerance to oxidative and chilling stresses in cassava (<i>Manihot esculenta</i> Crantz). <i>BMC Plant Biol</i> . 2014. 14:208
T. Ishikawa, Y. Ohta, T. Takeda, S. Shigeoka, M. Nishikimi. Increased cellular resistance to oxidative stress by expression of cyanobacterium catalase-peroxidase in animal cells. <i>FEBS Lett</i> . 1998. 426:221-4
R. Brigelius, M. S. Anwer. Increased biliary GSSG-secretion and loss of hepatic glutathione in isolated perfused rat liver after paraquat treatment. <i>Res Commun Chem Pathol Pharmacol</i> . 1981. 31:493-502
R. Brigelius, R. Lenzen, H. Sies. Increase in hepatic mixed disulphide and glutathione disulphide levels elicited by paraquat. <i>Biochem Pharmacol</i> . 1982. 31:1637-41
R. J. van Klaveren, P. H. Hoet, J. L. Pype, M. Demedts, B. Nemery. Increase in gamma-glutamyltransferase by glutathione depletion in rat type II pneumocytes. <i>Free Radic Biol Med</i> . 1997. 22:525-34
K. Murakami, M. Yoshino. Inactivation of aconitase in yeast exposed to oxidative stress. <i>Biochem Mol Biol Int</i> . 1997. 41:481-6
X. G. Lei. In vivo antioxidant role of glutathione peroxidase: evidence from knockout mice. <i>Methods Enzymol</i> . 2002. 347:213-25
N. Ishimoto, T. Nemoto, K. Nagayoshi, F. Yamashita, M. Hashida. Improved anti-oxidant activity of superoxide dismutase by direct chemical modification. <i>J Control Release</i> . 2006. 111:204-11
Y. Zhao, J. Li, Y. Chen, H. Huang, Z. Yu. [Impact of exogenous paraquat on enzyme exudation and biochemical changes of lignin degradation fungi]. <i>Sheng Wu Gong Cheng Xue Bao</i> . 2009. 25:1144-50

1. The influence of lindane and paraquat on oxidative stress-related parameters of the red blood cell was studied in vitro
The cytostatic Adriamycin and the herbicide paraquat form reactive oxygen species during enzymatic activation. Adriamycin
Reactive oxygen species (ROS) are thought to play a role in the aging process as well as in a number of human diseases such as
Mitogen-activated protein kinase (MAPK) cascade has been shown to be important components in stress signal transduction
Cells hyper-resistant to hydrogen peroxide (H ₂ O ₂) were obtained from a Chinese hamster cell line (CHL) by repeated treatment
Oxygen free radicals have the potential to mediate cell injury. Defenses against such radicals include the antioxidant enzymes
Conditioning is the phenomenon where exposure to moderate-level acoustic stimuli can increase the ear's resistance to subsequent
Enzymatic and nonenzymatic mixed-function oxidase systems have been shown to generate an oxidant that catalyzes the
Paraquat (1,1'-dimethyl-4,4'-bipyridinium) is a widely used herbicide known to induce skin toxicity. This is thought to be caused
BACKGROUND: Cassava (<i>Manihot esculenta</i> Crantz) is a tropical root crop, and is therefore, extremely sensitive to low temperatures
To exploit prokaryotic antioxidant enzymes for protection of animal cells from oxidative damage, we expressed catalase-encoding
Perfusion of isolated rat livers with 1 mM paraquat for 3 hours led to a stimulated release of oxidized glutathione into the
Paraquat (1 mM), when added to isolated haemoglobin-free perfused rat liver, leads to an increase of intracellular mixed-function
The purpose of our study was to investigate the effect of oxidative stress or intracellular glutathione (GSH) depletion on gene
Inactivation of aconitase by oxidative stress was analyzed under the in vivo and in situ conditions of yeast cells. Treatment
Chemically modified derivatives of superoxide dismutase (SOD), i.e., cationized (Cat-SOD) and mannosylated SOD (Man-SOD)
To study the effect of exogenous oxygen, we added water solution of paraquat to 7 d cultures of <i>Coriolus versicolor</i> for three

Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant
Not Relevant